Serial No.: 09/848,830 Filed: May 3, 2001 Page: 2 of 7

## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

 (Previously Amended) A carrier head for a chemical mechanical polishing apparatus, comprising:

a rigid base;

a substrate mounting surface that is vertically movable relative to the base; and

a retaining ring to maintain a substrate beneath the mounting surface during polishing, the retaining ring including

a substantially annular lower portion having a bottom surface for contacting a polishing pad during polishing, wherein the lower portion is made of a plastic, and

a substantially annular upper portion having a bottom surface joined to the lower portion and a top surface fixed to and abutting the base, wherein the upper lower portion is made of a metal which is more rigid than the plastic.

- (Original) The carrier head of claim 1, wherein the plastic is substantially inert to a chemical mechanical polishing process.
- 3. (Previously Amended) The carrier head of claim 1, wherein the lower portion has a durometer measurement between about 80 and 95 on the Shore D scale.
- (Previously Amended) The carrier head of claim 1, wherein the lower portion is between about 100 and 400 mils thick.
- (Previously Amended) The carrier head of claim 4, wherein the upper portion is thicker than the lower portion.

Serial No.: 09/848,830 Filed: May 3, 2001 Page: 3 of 7

 (Original) The carrier head of claim 1, wherein the plastic is selected from the group consisting of polyphenylene sulfide, polyethylene terephthalate, polyetheretherketone, and polybutylene terephthalate.

- (Original) The carrier head of claim 6, wherein the plastic is polyphenylenc sulfide.
- (Original) The carrier head of claim 1, wherein the metal is selected from the group consisting of steel, aluminum, and molybdenum.
- (Original) The carrier head of claim 1, wherein the metal material has an elastic modulus about ten to one-hundred times the elastic modulus of the plastic material.
- (Original) The carrier head of claim 1, wherein the lower portion is adhesively attached to the upper portion.
- (Currently Amended) The carrier head of claim 10, wherein the adhesive is a slow-curing an epoxy.
- (Original) The carrier head of claim 1, wherein the lower portion is press fit to the upper portion.
- (Original) A retaining ring for a carrier head having a mounting surface for a substrate, comprising:

a generally annular lower portion having a bottom surface for contacting a polishing pad during polishing, the lower portion made of a plastic; and

a generally annular upper portion having a bottom surface secured to the lower portion and a top surface configured to be mechanically affixed to and abut a rigid base of a carrier head, wherein the upper portion is made of a metal which is more rigid than the plastic.

Serial No. : 09/848,830 Filed : May 3, 2001 Page : 4 of 7

14. (Previously Presented) The retaining ring of claim 13, wherein the plastic is substantially inert to a chemical mechanical polishing process.

- (Previously Presented) The retaining ring of claim 13, wherein the lower portion has a durometer measurement between about 80 and 95 on the Shore D scale.
- (Previously Presented) The retaining ring of claim 13, wherein the lower portion is between about 100 and 400 mils thick.
- 17. (Previously Presented) The retaining ring of claim 16, wherein the upper portion is thicker than the lower portion.
- 18. (Previously Presented) The retaining ring of claim 13, wherein the plastic is selected from the group consisting of polyphenylene sulfide, polyethylene terephthalate, polyetheretherketone, and polybutylene terephthalate.
- (Previously Presented) The retaining ring of claim 18, wherein the plastic is polyphenylene sulfide.
- 20. (Previously Presented) The retaining ring of claim 13, wherein the metal is selected from the group consisting of steel, aluminum, and molybdenum.
- (Previously Presented) The retaining ring of claim 13, wherein the metal material
  has an elastic modulus about ten to one-hundred times the elastic modulus of the plastic material.
- (Previously Presented) The retaining ring of claim 13, wherein the lower portion is adhesively attached to the upper portion.

Serial No.: 09/848,830 Filed: May 3, 2001 Page: 5 of 7

 (Currently Amended) The retaining ring of claim 22, wherein the adhesive is a slow-euring an epoxy.

- (Previously Presented) The retaining ring of claim 13, wherein the lower portion is press fit to the upper portion.
- 25. (Previously Presented) A retaining ring for a carrier head having a mounting surface for a substrate, comprising:

a generally annular lower portion having a bottom surface for contacting a polishing pad during polishing, the lower portion made of a first material that is substantially inert to a chemical mechanical polishing process and has a durometer measurement between about 80 and 95 on the Shore D scale and a first thickness between 100 and 400 mils; and

a generally annular upper portion having a bottom surface secured to the lower portion and a top surface configured to be mechanically affixed to and abut a rigid base of a carrier head, wherein the upper portion is made of a second material which is more rigid than the first material and has a second thickness greater than the first thickness and an elastic modulus about ten to one-hundred times the elastic modulus of the first material.

- (Previously Presented) The retaining ring of claim 25, wherein the first material is a plastic.
- 27. (Previously Presented) The retaining ring of claim 26, wherein the plastic is selected from the group consisting of polyphenylene sulfide, polyethylene terephthalate, polyetheretherketone, and polybutylene terephthalate.
- 28. (Previously Presented) The retaining ring of claim 27, wherein the plastic is polyphenylene sulfide.
- (Previously Presented) The retaining ring of claim 25, wherein the second material is a metal.

Applicant : Zuniga et al.
Serial No. : 09/848,830
Filed : May 3, 2001
Page : 6 of 7

30. (Previously Presented) The retaining ring of claim 25, wherein the metal is selected from the group consisting of steel, aluminum, and molybdenum.